Milan Army Ammunition Plant Overview

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JMC - Ready - Reliable - Lethal

MLAAP Mission

- **Load, Assemble, & Pack Medium/ Large Caliber Ammunition for the U.S. and Allied Armed Forces**

- **Receive & Ship Containerized & Break Bulk Ammunition**

- **Ammunition Storage & Surveillanc**

History

- Constructed in 12 Months: January 1941-January 194
- Procter & Gamble first operating contractor through
- Harvey Aluminum through 1972
- Martin Marietta through 1992
- Lockheed Martin through 1996
- General Dynamics through 1998
- American Ordnance 1998 - Current

Milan Production Capability

A-LINE

INERT OPERATIONS
M430 PRESSING
M483/M864 ASSY
105mm ICM ROUNDS

B-LINE

M918 ASSY
M385 ASSY
M430 ASSY
BOOSTER PELLETING
M433 PRESSING
M433 ASSY

D-LINE

MORTAR ASSY 81MM
MORTAR ASSY 60MM
MORTAR ASSY 120MM
ARMY TACMS
FUZE ASSY
MELT-POUR 155MM
ASSEMBLY 155MM
MELT-POUR M74
M74 GRENADE ASSY
MORTAR DRILLING
MELT POUR MORTARS
MLRS GRENADES

H-LINE

IGN CTG 60MM/81MM
MORTAR FUZE ASSY
PROP CHGS
BLACK POWDER PRESSING

I-LINE

M183/M112 ASSY
EXTRUSION COMP
C-4

O-LINE

MELT OUT
INERT POURING
40MM DELINKING
TOUCH UP PAINT
40MM BLK
SALUTE

X-LINE

M74 WELDING
MK 36 ASSY
MICLIC ASSY
MK 36 POURING
MELT-POUR BURSTER
105MM TANK AMMO
REACTIVE ARMOR TILE
ARTILLERY PRIMERS
M67 GRENADES

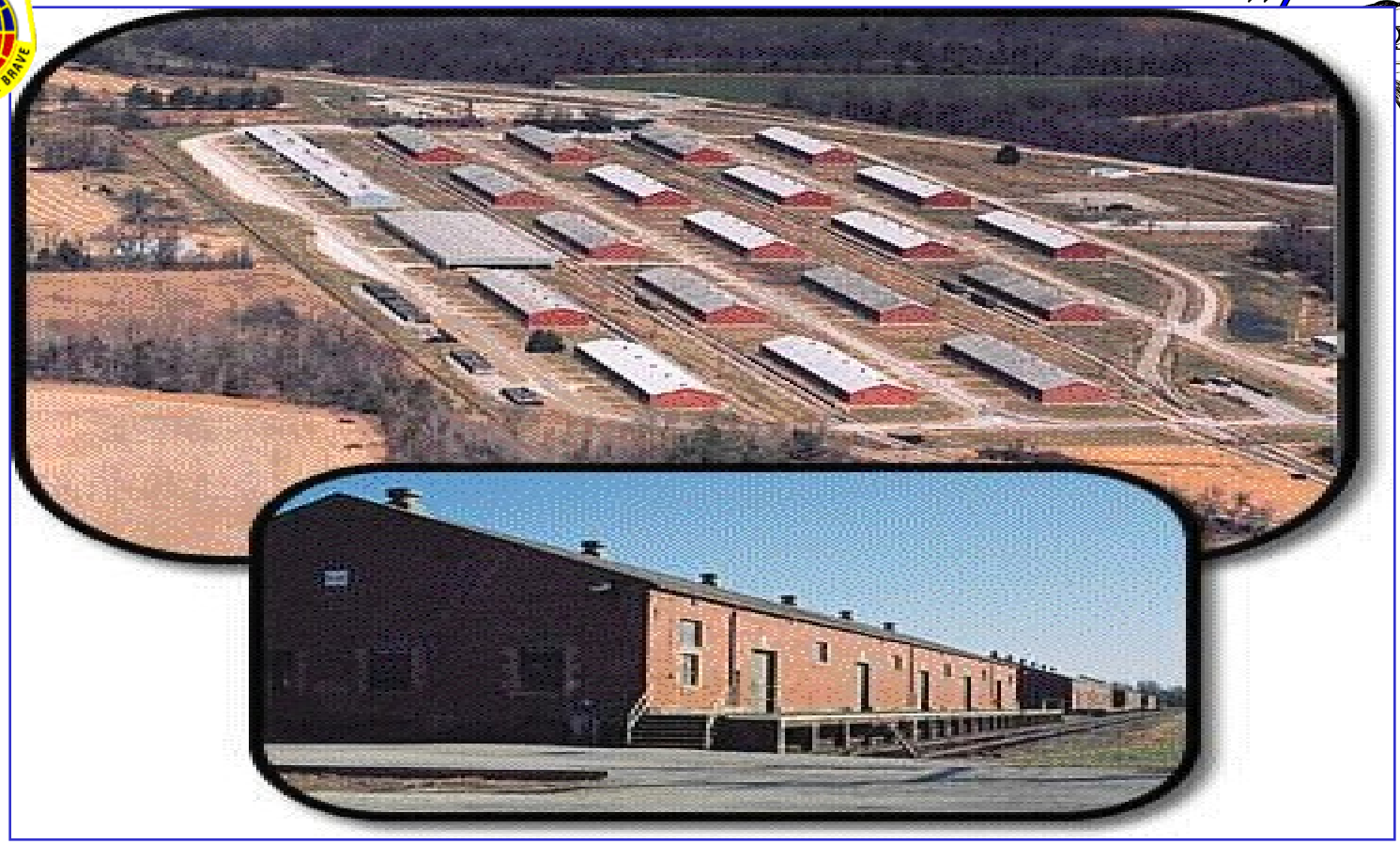
Current Operations
Other capabilities
Current Delivery Orders
BRAC Items

DEPOT UTILIZATION

874 Earth-Covered Igloos

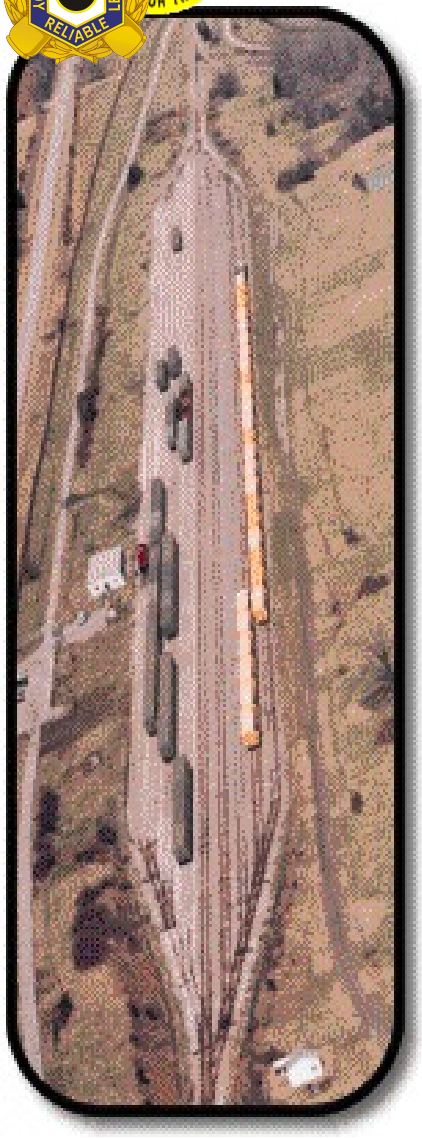
- **Total capacity of 1,428,457 sq. ft.**
- **Total occupied of storage: 59.71%**
- **26 Category II igloos with IDS System**

Storage



Milan AAP contains one of the Army's largest storage facilities with an additional 778,643 square ft. of above ground storage capacity. There is a total storage capacity of 2.2 million square ft. with 60.62% current usage rate

Transportation



Rail

There are 86 miles of track on site, along with one switching yard. The plant has a rail car storage capacity of approximately 3,000 cars, while continuing to supply support to the production lines and facility. Also, rail and railcar maintenance facilities are on site.

MILVAN Operations

- 1279 FT. LONG X 70 FT. WIDE
- TOTAL Net Explosive Weight 500,000 LBS.
- BOTH RAIL AND ROAD CAPABILITY
- LIGHTNING PROTECTED W/LIGHTS
- TWO 50,000 LB. ROUGH TERRAIN FRONT LOADERS
- CURRENT OUTLOAD CAPACITY OF 4 CONTAINERS/DAY

SHIPPING LOCATION ADVANTAGE

Milan is centrally located to a large portion of JMC and "user" installations. Inner circle below represents approximately 8 hours transport. Outer circle represents approximately 16 hours transport or 1,000 miles.

Driving time from Milan to an Interstate Highway:

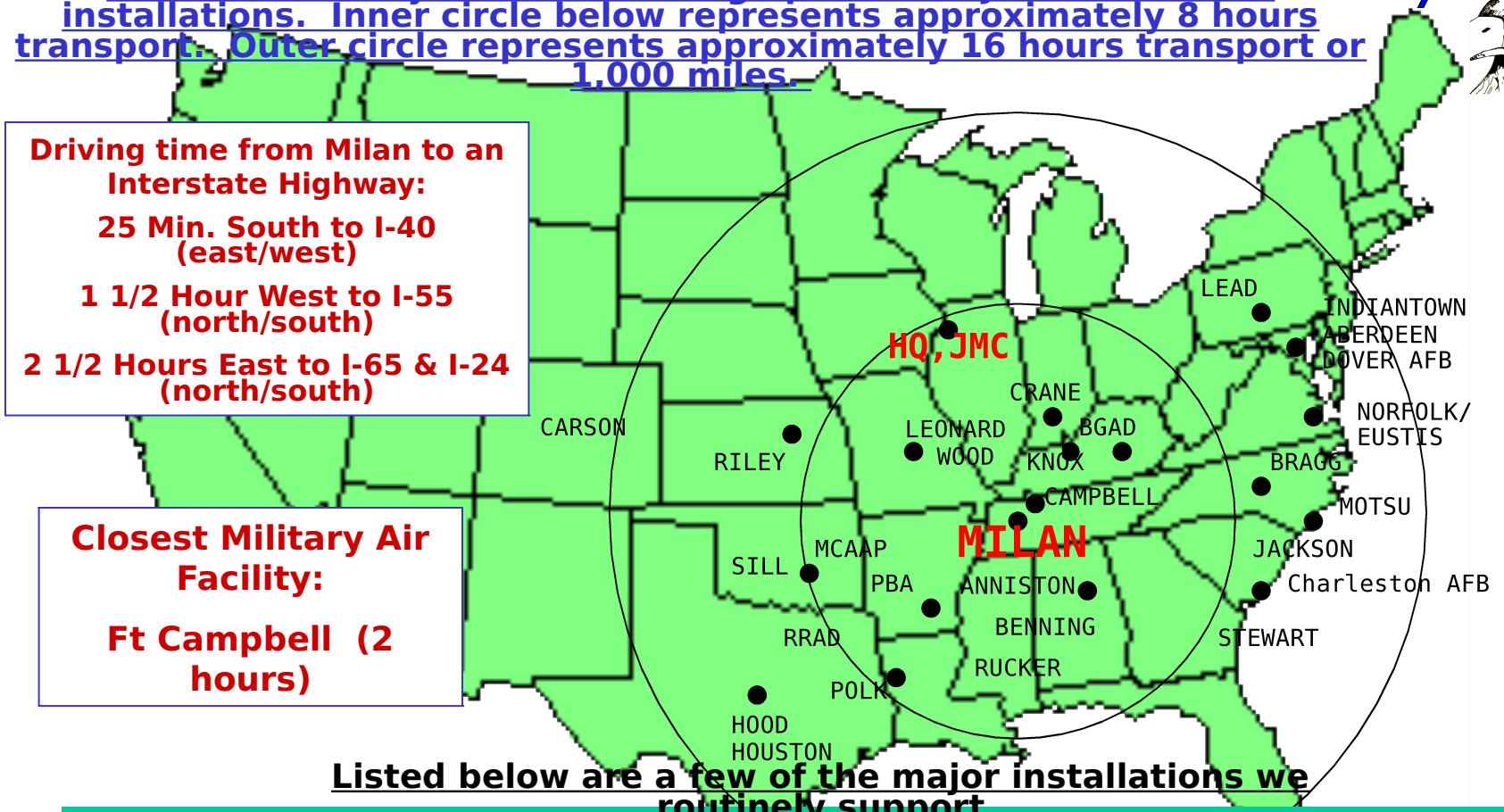
25 Min. South to I-40 (east/west)

1 1/2 Hour West to I-55 (north/south)

2 1/2 Hours East to I-65 & I-24 (north/south)

Closest Military Air Facility:

Ft Campbell (2 hours)



Listed below are a few of the major installations we routinely support

DEPOTS	TRADOC	FORSCOM	OTHER
Anniston	Ft Benning	Ft Bragg	MOTSU, NC port
Aberdeen PG	Ft Eustis		Ft Campbell
Bluegrass	Ft Jackson	Ft Hood	Savannah, GA port
Crane	Ft Knox	Ft AP Hill	Camp Shelby
Letterkenny	Ft Leonard Wood	Ft Stewart	Camp Blanning
McAlester	Ft Gordon	Ft Polk	Dover AFB
Pine Bluff			Houston, TX port
Red River			

Extensive Ballistic and Destructive Test Capability

- Static Functioning Tests for Primers, Detonators and Ignition Cartridges
- BLU Bomblet Testing
- Transportation, Drop Tests, and Environmental Testing
- Flight Testing & Spin Functioning of Grenades

- Ballistic Acceptance Testing of 40MM Cartridges
- Fuze Functioning Testing
- 60 & 81MM Mortar
- C-4 Demo Block Energy Output

Demilitarization

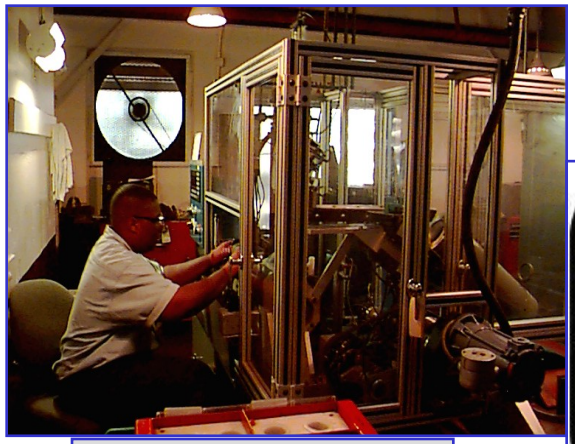
Open Burning/Open Detonation Facilities

Federal & State Approved Facilities

- 11 Refractory Lines Burn Pans - 4000 lbs per treatment with six treatments per day
- 20 Detonation Pits – 10,000 lbs per

Facility Capabilities

- Metrology Lab
- Machine Shop
- Welding & Sheet Metal
- Plumbing & Refrigeration
- Electrical, Instrument & Telephone Shop
- Painting & Carpentry
- Equipment Transport & Setup
- Environmental Lab
- Chemistry Lab



Automatic Chamber Gage

In-House Capabilities to Design & Fabricate LAP Lines for any Ammunition Item

Nondestructive Testing

- "World Class" Industrial X-Ray Facility - 160 kV to 4 MEV
- Fluoroscope - 150 kV to 320
  Portable X-Ray - 200 kV
- Mag Particle, Magnetic Flux, Hardness Test Capabilities
- High Resolution Digital Radiography 420 kV

V-Line X-Ray Reading

Largest AAP State-of-the-Art Nondestructive Test Capabilities

Well Maintained Infrastructure

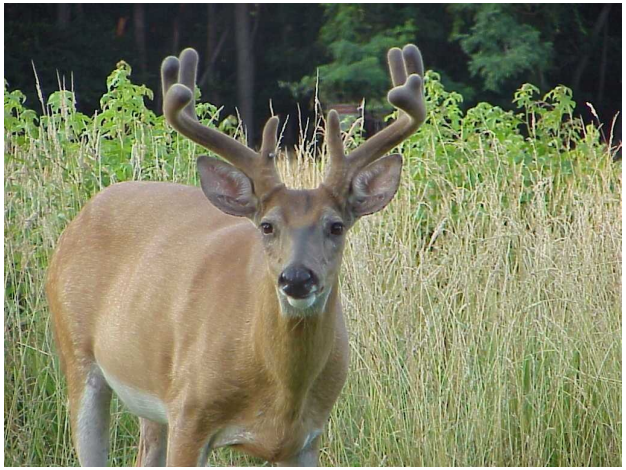
- Electricity - 13,000 KVA
- Milan Has Fiber Optics Installed Plant Wide
- Steam Generation at 100 - 150 PSIG
- Domestic Sewage Treatment - 300 KGD
- Drinking Water - 5.3 MGD
- Compressed Air - 2,025 HP at 100 PSIG

Milan Support to the Warfig

- Inactive production lines used for urban warfare training
- Units/organizations that train or have trained at Milan AAP:

USASOC
160th SOAR
U.S. Navy Seals
5th Special Forces Group
75th Ranger Regiment
WOAC/ANOC/BNOC
101st Airborne Division
Local Law Enforcement
187th Infantry
45th Civil Support Team

Natural Resource Management



- Government personnel responsible for land management
- Consists of Agricultural, Forestry, Fish & Wildlife
- Total Acres Leased: 8,620 consisting of 49 units
  - Lessees provide field maintenance as part of lease agreement

Installation Environmental Program

- **Placed on National Priorities List (Superfund) – 1987**
- **Three Groundwater Treatment Plants; remediate groundwater explosive contamination**
- **Bioremediation Treatment Facility for soil composting**
- **ARCADIS restoration contractor: May 2004 - 2014**

Environmental Compliance Environmental Permits

Title V Air Permit (547903)

31 Number 2 Diesel-fuel-fired boilers

3 Regulated Above Ground Storage Tanks

9 Permitted LAP Facilities

1 Open Burning/Open Detonation Operations

Hazardous Waste Storage Permit and Treatment Application

Hazardous Waste Permitting

Storage Permit (TNHW – 104)

- 14 Explosive Storage – 2.5 million lbs. max storage
- 1 Inert Storage – 55K lbs. max storage
- 1 Explosive Transfer Facility – 8.8K max storage

Environmental Compliance
Permits

Industrial Sanitary Landfill (ILD 27-101-0085)

Capacity in excess of 100 yrs based on current solid waste generation

Drinking Water Permit (PWSID #0000798/0005095)

3.7 million gallons per day capability

Wastewater Treatment Permit (SOP-01005)

350,000 gal/min treatment system (Land application)

Regulated Underground Storage Tanks (0-270104)

6 State regulated tanks (3 diesel – 3 gasoline)

Closed Sanitary Landfill (SNL 09-101-0085)

Clean Water Act Stormwater Outfalls (TN0000060)

Hazardous Waste Storage

Federal/State Approved Non-Explosive Permitted Hazardous Waste Storage Building

14 Federal/State Approved Explosive Permitted Hazardous Waste Storage Magazines

Significant ARMS Tenants

- **Esterline**
  - Lease Line Z and E through Dec 2010
  - Military flare manufacturer
  - Support Services: Fire dept & ambulance services, X-ray facility, badging, etc.
- **Greenway Nursery and Landscaping, Inc.**
  - 7.8 Acre Land lease through Jun 2010
- **Accurate Arms Co, Inc.**
  - Lease 24 igloos through Dec 2010

CURRENT ARMS CONTRACTS

East Camden & Highland RR

- Store empty and inert (non-hazardous materials) loaded rail cars
- Provide moves of 225 railcars at no cost to Government
- Contract expires May 2009

MILAN AAP SUMMARY

- SUPPORTS THE WARFIGHTER WITH PRODUCTS AND FACILITIES
- QUALITY AMMO PRODUCER OF LARGE VARIETY OF ITEMS
- HAS CAPACITY FOR ADDITIONAL MISSIONS
- ACTIVE FACILITY USE CONTRACTS WITH A HIGH POTENTIAL FOR ADDITIONAL TENANTS
- SOUND INFRASTRUCTURE
- CENTRALIZED LOCATION WITH READY LABOR POOL

Milan AAP Support to the Warfighter…
"It all comes together here"

60MM Mortar

40MM, MK19

ARMOR TILES

81MM Mortar

40MM, M203

155 MM

MICLIC

M74 GRENADES ATACMS